

The Javascript object includes all of the specified methods of the server-side bean (see Fig. name as the server side bean Javascript object of the same Receive HTML page having browser's document object Javascript to instantiate a Javascript object to the Automatically execute Automatically add the Javascript Fig. 3 4b)) Generates API for registered Generate HTML page with register server-side beans Send HTML to client-side For a particular session, Javascript calling API (see Figs. 4a and 4b) server-side methods having methods Server-side Fig. 2 Inventor(s): Robert DeSantis Atty. Docket No.: 22233-08078

Title: Automatically Creating Javascript
Objects To Invoke Methods On Server-Side Express Mail Label No. EV 333134887 US

Java Beans

Client-side

Express Mail Label No. EV 333134987 US
Title: Automatically Creating Javascript
Objects To Invoke Methods On Server-Side
Java Beans
Inventor(s): Robert DeSantis
Atty. Docket No.: 22233-08078
Sheet 3 of 10

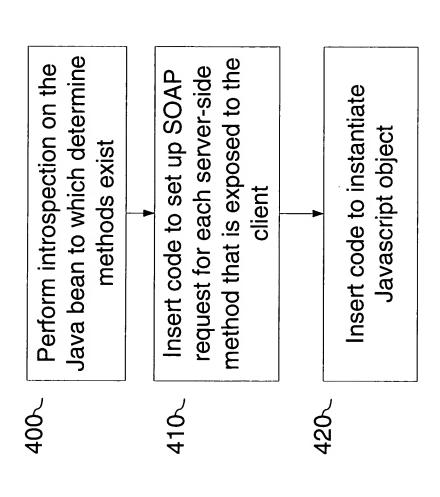


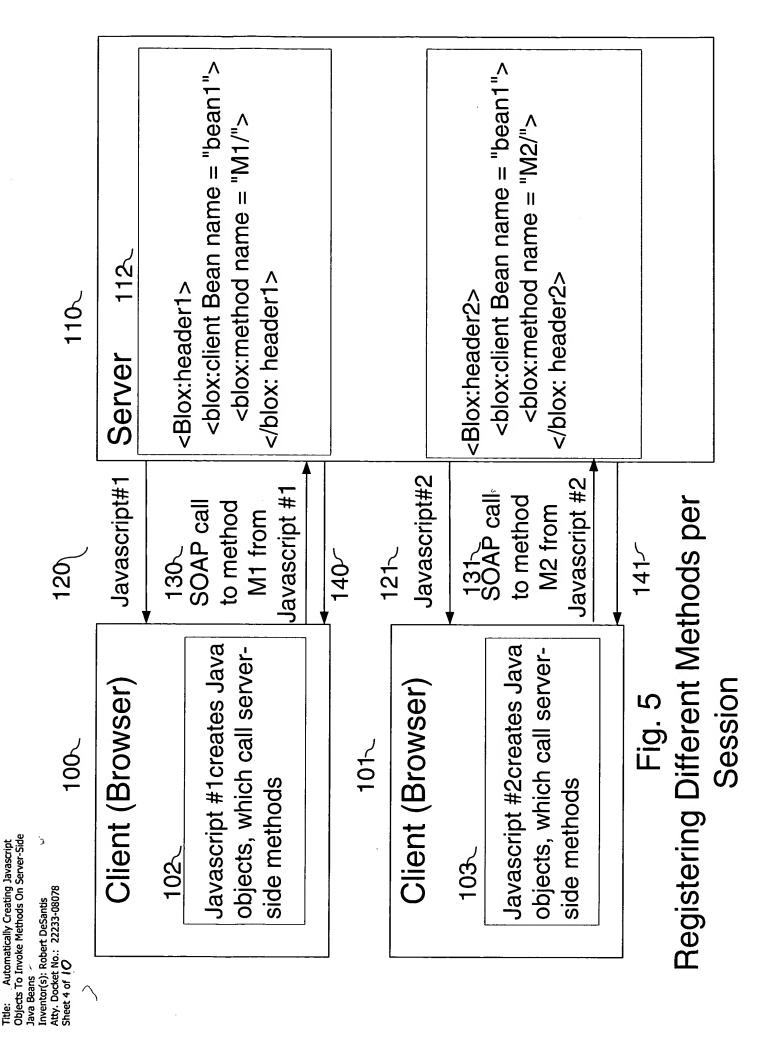
Fig. 4a
Automatic Generation of
Javascript on Server-Side

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Javascript
Declaration of public
methods for this session
Set up SOAP request for
each server-side method
Instantiate Javascript

Fig. 4b
Fûnctional Description of
Automatically Generated
Javascript

Object



Express Mail Label No. EV 333134887 US

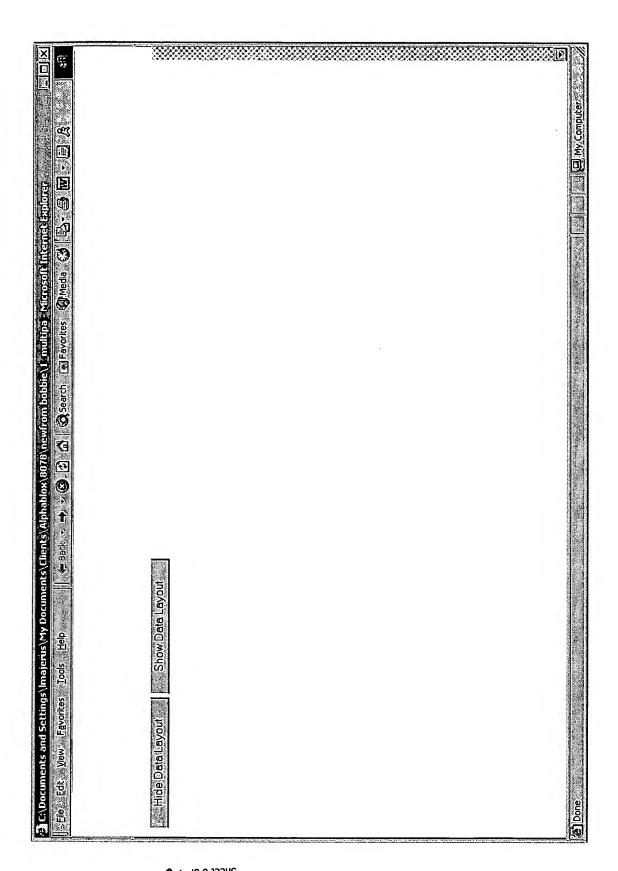
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Express Mail Label No. EV 333134887 US
                                                                                                                                Inventor(s): Robert DeSantis
                                                                                                     Java Beans
                                                                                                                                        com.alphablox.blox.ServerBloxException"%>
                                                                                             <%@ page import="com.alphablox.blox.PresentBlox,</p>
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                                                                                                                                                                                   <%@ taglib uri='bloxtld' prefix='blox'%>
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Title: Automatically Creating Javascript
Objects To Invoke Methods On Server-Side Atty. Docket No.: 22233-08078 Sheet 5 of 10

Periods].[2000].[Qtr 4 00], [Scenario].[All Scenario].[Actual]), ([Time].[Calendar].[All Time Periods].[2001], [Scenario].[All Scenario].[Budget]), ([Time].[Calendar].[All Time Periods].[2001].[Qtr 1 01], [Scenario].[All Scenario].[Budget]), ([Time].[Calendar].[All Time Periods].[2001].[Qtr 2 01], Scenario].[All Scenario].[Budget])} ON COLUMNS, {[Locations].[All Locations], [Locations].[All Locations].Children} ON ROWS FROM QCC" /> query="SELECT {([Time].[Calendar].[All Time Periods].[2000].[Qtr 3 00], [Scenario].[All Scenario].[Actual]), ([Time].[Calendar].[All Time

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Example JSP Page
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Objects To Invoke Methods On Server-Side
Java Beans
Inventor(s): Robert DeSantis
Atty, Docket No.: 22233-08078
Sheet 6 of 1 O

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700
```

import com.alphablox.blox.PresentBlox; import com.alphablox.blox.ServerBloxException;

```
public class MyBean {
    private PresentBlox blox;

public MyBean()
{
    public void setBlox( final PresentBlox blox ) {
        this.blox = blox;
}

public String[] showDataLayout( boolean show ) {
        try {
            blox.setDataLayoutAvailable( show );
        } catch (ServerBloxException e) {
                e.printStackTrace();
        }

        return new String[] { "one", "two", "three" };
}
```

Fig 7 Example of bean

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```
bean_myBean.is
/* Automatically Generated JavaScript - do not modify */
function ImyBean( )
              // Public methods
              this.showDataLayout = _showDataLayout;
               this.setBlox = \underline{\underline{}}setBlox;
               function _showDataLayout( arg1 ) {
                            var soap = new SimpleSoapRequest( "callBean" );
soap.addParameter( "bean", "myBean" );
soap.addParameter( "method", "showDataLayout" );
soap.addParameter( "arg1", arg1, "boolean" );
return bloxAPI.rpc( soap );
               function _setBlox( arg1 ) {
                            var soap = new SimpleSoapRequest( "callBean" );
soap.addParameter( "bean", "myBean" );
soap.addParameter( "method", "setBlox" );
soap.addParameter( "arg1", arg1 );
return bloxAPI.rpc( soap );
var myBean = new ImyBean( );
document.myBean = myBean;
```

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Objects To Invoke Methods On Server-Side
Java Beans
Inventor(s): Robert DeSantis
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Tide: Automatically Creating Javascript
Objects To Invoke Methods On Server-Side
Java Beans
Inventor(s): Robert DeSantis
Atty. Docket No.: 22233-08078
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<!-- START ALPHABLOX HEADER -->

<LINK REL="stylesheet" HREF="/AlphabloxServer/theme/coleman/coleman_dhtml.css" TYPE="text/css"> <LINK REL="stylesheet" HREF="/AlphabloxServer/theme/coleman/coleman.css" TYPE="text/css"> <LINK REL="stylesheet" HREF="/AlphabloxServer/theme/dhtml_view.css" TYPE="text/css"> <META HTTP-EQUIV="Pragma" CONTENT="no-cache">

```
<SCRIPT>
var _appContext = "dca";
var _appName = "dca";
var _renderType = "dhtml";
var _renderType = "dhtml";
var _bollInterval = 120000;
var _themeVame = "coleman";
var _themeName = "coleman";
var _imageURL = "/AlphabloxServer/theme/coleman/i/";
var _imageURL = ",
var _ima
```

sSCRIPT LANGUAGE="javascript" src="/AlphabloxServer/temp/script/dca/bean_myBean.js"></SCRIPT> 🦯 906 «SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/clientToolbarAPI.is"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/browserCheck.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/BloxHttp.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/BloxAPI.js"></SCRIPT>_ <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/stringUtilities.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/Events.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/Dialog.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/Soap.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/compatibility.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/color.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtm/utility.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/Blox.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/core.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/grid.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/jslib/dhtml/cell.js"></SCRIPT> <SCRIPT LANGUAGE="javascript" src="/AlphabloxServer/theme/aas.js"></SCRIPT>

<!-- END ALPHABLOX HEADER -->

Fig. 9a

HTML Sent to Server

```
914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <input type="button" value="Hide Data Layout" onclick="showDataLayout( false );" >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <input type="button" value="Show Data Layout" onclick="showDataLayout( true );" >
                                                                                           900
                                                                                                                                                                                                                                                                   912
                                                                                                                                                                                                                                                                                                                                          // Display the return value from the server-side bean method
                                                                                                                                                                                                                                                                                                                                                                           alert( "Result type: " + typeof result + "\r\n\r\n" + result );
                                                                                                                                                                                                                                                                        var result = myBean.showDataLayout( show );
                                                                                                                                   // Use ClientBean to invoke method on the bean
                                                                                                                                                                                                                                     // Call the server-side bean's method
                                                                                                                                                                     function showDataLayout( show )
Inventor(s): Robert DeSantis Atty, Docket No.: 22233-08078 Sheet 10 of 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  </script>
                                                                 <script>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    </head>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          </pod/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cpod>
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```

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Java Beans

Fig. 9b HTML Sent to Server (cont.)